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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/674,190		09/29/2003	Ara Kulidjian	00100.02.0035	00100.02.0035 4146	
29153	7590	07/31/2006		EXAMINER		
ATI TECH			CHERRY, STEPHEN J			
C/O VEDDER PRICE KAUFMAN & KAMMHOLZ, P.C. 222 N.LASALLE STREET				ART UNIT	PAPER NUMBER	
CHICAGO,	CHICAGO, IL 60601			2863	-	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Occurrence	10/674,190	KULIDJIAN					
Office Action Summary	Examiner	Art Unit					
	Stephen J. Cherry	2863					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on 26 Ap	oril 2006.						
	•						
·—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	•						
4)⊠ Claim(s) <u>1,3-5 and 7-20</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>5,17 and 18</u> is/are allowed.							
6) Claim(s) 1,3,4,7-16,19 and 20 is/are rejected.	· · · · · · · · · · · · · · · · · · ·						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on <u>11-4-2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
 Certified copies of the priority documents 	1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the prior		ed in this National Stage					
application from the International Bureau	• • • • • • • • • • • • • • • • • • • •						
* See the attached detailed Office action for a list	of the certified copies not receive	d.					
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152)					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atent Application (PTO-192)					

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DETAILED ACTION

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1, 3, 9, 10, 12, 13, are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The claims merely recite the manipulation of measured data and do not produce a tangible result.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3-4, 7-16, and 19-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 5,740,352 to Philipp et al in view of U.S. Patent 7,009,604 to Chan et al.

Claim 1 recites, as disclosed by Philipp:

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1. A method for automated testing of display signals from video graphics circuitry comprising:

capturing at least one display signal ('352, col. 5, line 15);

converting the display signal into at least one data acquisition signal ('352,

fig. 1, output of 200);

providing the at least one data acquisition signal to a test system that tests the display signal ('352, col. 8, line 7)

Claim 3 recites, as disclosed by Philipp:

3. The method of claim 2 wherein the data acquisition signals include at least one of the following: a vertical synchronization signal, a horizontal synchronization signal ('352, col. 13, line 29), a data enable signal, and a voltage control signal.

Claim 4 recites, as disclosed by Philipp:

4. The method of claim 1 wherein the display signals are also transmitted to the display device ('352, col. 5, line 1, and fig. 1).

Claim 7 recites, as disclosed by Philipp:

7. The method of claim 4 wherein the display signals are transmitted to the display device using at least one of low voltage differential signaling, transition minimized differential signaling, and analog RGB signaling ('352, col. 5, line 56).

Claim 8 recites, as disclosed by Philipp:

8. The method of claim 1, wherein the display signals are generated by a computer under test and prior to capturing the display signals, the method further comprising:

providing at least one of the following: a keyboard command and a power change command, to the computer under test from a test computer to generate the display signals ('352, col. 10, line 16).

Claim 9 recites, as disclosed by Philipp:

9. A method for automated testing of display information for a display device comprising: providing a test command to a computer under test such that the computer under test generates display signals to be transmitted to the display device ('352, col. 10, line 16); capturing the display signals to be received by the display device ('352, col. 5, line 15); converting the display signals into at least one data acquisition signal ('352, output of 200); providing the at least one data acquisition signal to the test system ('352, col. 8, line 7)

Claim 10 recites, as disclosed by Philipp:

10. The method of claim 9 wherein prior to the step of providing the test command to the computer, the method includes: providing an original command to a command converter; and generating the test command ('352, col. 10, line 23).

Claim 11 recites, as disclosed by Philipp:

11. The method of claim 9 further comprising; generating a display

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Claim 12 recites, as disclosed by Philipp:

accuracy report ('352, fig. 3, 411).

12. The method of claim 9 wherein the step of taking measurements of the

at least one data acquisition signal includes: measuring at least one of the following: a horizontal synchronization signal, a vertical synchronization

signal, a data enable signal, a voltage command signal and a backlight

signal ('352, col. 13, line 29).

Claim 13 recites, as disclosed by Philipp:

13. The method of claim 9 wherein the display signal is at least one of the

following: a low voltage differential signal, a transition minimized

differential signal and an analog RGB signal ('352, col. 15, line 56).

Claim 14 recites, as disclosed by Philipp:

14. An apparatus for automated testing of display signals from video

graphics circuitry comprising: a printed circuit board capable of receiving

display signals ('352, figs. 6a-6f, board inherent to circuit); a data

acquisition signal generated by the printed circuit board from the display

signals ('352, output of 200); and a test computer configured to receive

the data acquisition signal from the printed circuit board and tests the

display signals ('352, 300)

Claim 15 recites, as disclosed by Philipp:

15. The apparatus of claim 14 further comprising: a command generated by the test computer ('352, col. 10, line 16); and a command converter coupled to the test computer and a computer under test such that the command converter receives the command from the test computer, generates a test command and provides the test command to the computer under test ('352, fig. 1, 130).

Claim 16 recites, as disclosed by Philipp:

16. The apparatus of claim 15 wherein the command converter generates at least one of the following: a keystroke command and a power change command ('352, col. 10, line 16).

Claim 19 recites, as disclosed by Philipp:

19. An apparatus for automated testing of display signals from video graphics circuitry comprising: a printed circuit board capable of receiving display signals ('352, figs. 6a-6f, board inherent to circuit); a data acquisition signal generated by the printed circuit board from the display signal ('352, output of 200); and a test computer operably coupled to the printed circuit board, the test computer including a processor operably coupled to a memory storing executable instructions such that the processor, in response to the executable instructions: generates a command to be provided to a computer under test; recieves the data acquisition signal ('352, 300);

Claim 20 recites, as disclosed by Philipp:

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20. The apparatus of claim 19 further comprising: a command converter operably coupled to the test computer, such that the command converter receives the command from the test computer and generates a test command to be provided to a computer under test ('352, fig. 1, 130).

Phillip does not explicitly disclose taking time interval measurements based on a pixel clock signal of the data acquisition.

The claims further recite taking time interval measurements based on a pixel clock signal of the data acquisition ('604, col. 9, line 26 and claim 23).

Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the invention of Phillip with the time interval measurement of Chan to allow the displayed image to be detected ('604, abstract).

Response to Arguments

Applicant's arguments with respect to claims 1, 3-4, 7-16, and 19-20 have been considered but are most in view of the new ground(s) of rejection.

Allowable Subject Matter

Claims 5, 17 and 18 are allowed.

The following is an examiner's statement of reasons for allowance:

As indicated in the office action dated 12-14-2004.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen J. Cherry whose telephone number is (571) 272-2272. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on (571) 272-2269. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SJC

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